USGS
science for a changing world

Earthquake
Shaking

Green
Alert

GSN
USAID
FROM THE AMERICAN PEOPLE
ANSS

M 5.3, 143 km W of Waingapu, Indonesia

Origin Time: 2020-08-08 10:45:49 UTC (Sat 18:45:49 local)
Location: 9.8549° S 118.9717° E Depth: 10.0 km

PAGER
Version 4

Created: 4 hours, 4 minutes after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

65%

30%

4%

1   10   100   1,000   10,000   100,000
Fatalities

Estimated Economic Losses

65%

30%

4%

1   10   100   1,000   10,000   100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	350k	142k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0	5	50	100	500	1000	5000	10000
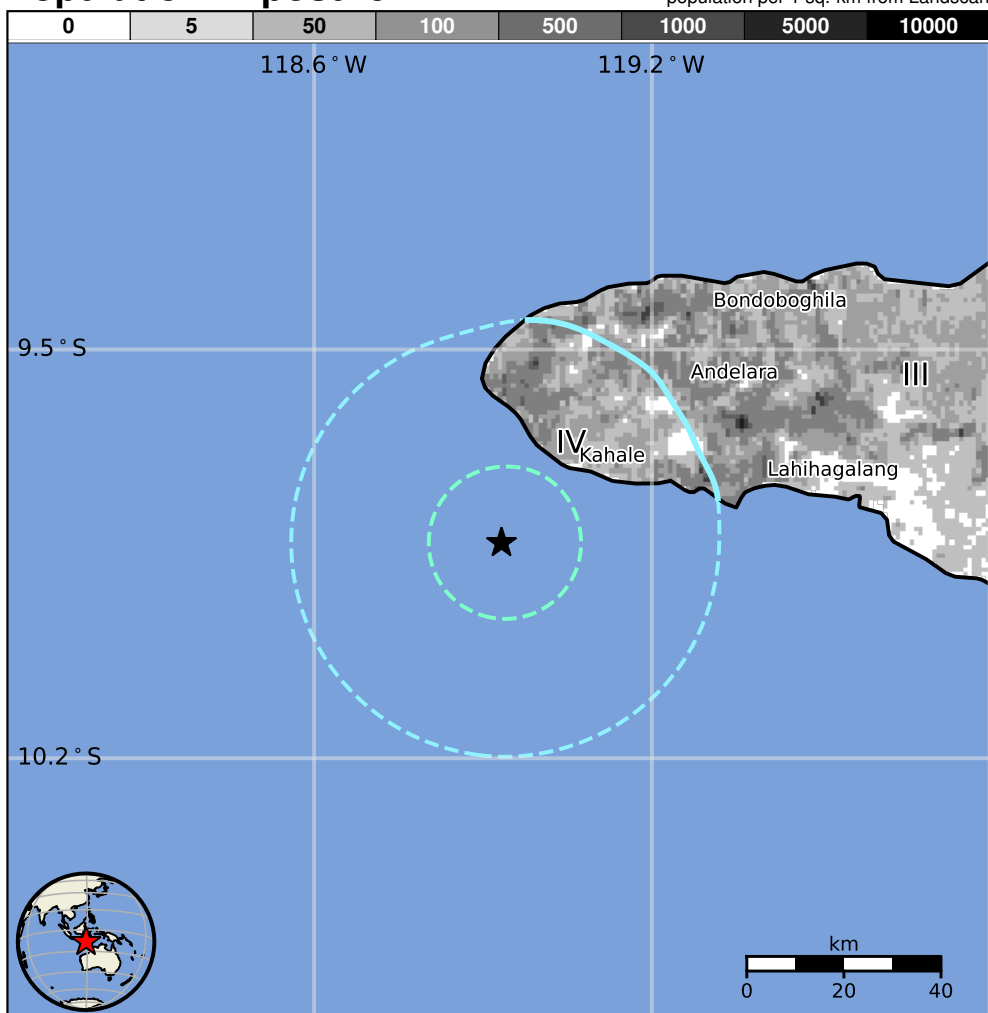
Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are unreinforced brick with concrete floor and precast concrete frame with wall construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2004-01-01	392	5.8	VII(14k)	1
2007-11-25	185	6.5	IX(5k)	3
1979-12-17	383	6.5	VIII(22k)	32

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Panenggoede	<1k
IV	**Kahale**	**<1k**
IV	Waiha	<1k
IV	Ngondokandawu	<1k
IV	Bondokodi	<1k
IV	Batang	<1k
IV	Dinjo	<1k
IV	Leteloko	<1k
IV	Hamonggolele	<1k
IV	Lokorota	<1k
IV	Pasolapida	<1k

bold cities appear on map.   (k = x1000)

https://earthquake.usgs.gov/earthquakes/eventpage/us6000bb2z#pager

Event ID: us6000bb2z